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TITLE: Method of controlling water feed of washing machine

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PATENT-FAMILY:

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APPLICATION-DATA:

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ABSTRACTED-PUB-NO: KR2001098082A

BASIC-ABSTRACT:

NOVELTY - A control method of water feed for a washing machine is provided to minimize error between cold/hot water temperature and set temperature, and to improve washing performance by measuring the temperature and pressure of cold/hot water and controlling the operation of cold/hot water valves.

DETAILED DESCRIPTION - A control unit senses(S12) the temperature of a tub before starting to feed water by using a temperature sensor after the temperature and water level of washing water is set(S10). The control unit feeds(S14) a specific amount of cold water through an opened cold water valve. The control unit calculates(S16) the feed amount of cold water per unit time after measuring the temperature of cold water with the temperature sensor. Then, the control unit decides(S18) the current season by comparing the detected temperature and pressure of cold water with the set value. If the detected temperature is lower than 5deg.C, the control unit decides the current season as winter. If the temperature is between 5-15deg.C, the control unit decides as spring or fall. Otherwise, the control unit decides as summer. The control unit performs(S20) efficient drying by setting the RPM(Revolution Per Minute) of a motor according to the decided season. The control unit feeds(S22) a specific amount of cold and hot water through each cold/hot water valve. After that, the control unit detects the temperature of fed water and calculates(S24) the temperature of hot water by using the detected temperature of cold water. If the temperature of cold water is different from one of fed cold/hot water, the control unit decides(S26) that the same amount and temperature of hot water is not fed. The control unit feeds(S28) cold water only without regard to temperature control routines. If hot water is fed, the control unit feeds(S30) water up to a slightly lower water level than the set level by controlling the two water valves. The control unit measures(S32) the temperature of water again and feeds(S34) water

up to the set water level by controlling the valves according to difference between the temperature of fed water and the set temperature. Therefore, water feed is controlled exactly.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: METHOD CONTROL WATER FEED WASHING MACHINE

DERWENT-CLASS: X27

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